

Utah Weekly Pertussis Update

2015 data, through MMWR week ending June 20, 2015 (MMWR week 24)

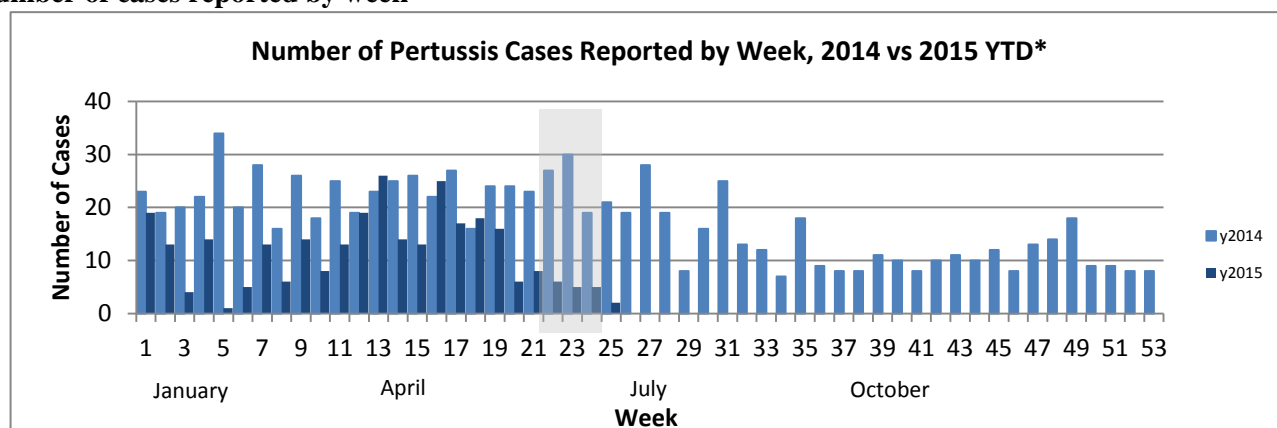
Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2015 year-to-date (YTD)	290	Utah Incidence rate, 2015 year-to-date (YTD) per 100,000 person-years	21.3
Total number of cases reported 2014	926	Utah Incidence rate, 2014 per 100,000 person-years	31.9
Number of cases reported in past week	10	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional	8.9
Total number of cases reported, through same time period 2014	556	2015 Hospitalizations	8
Age groups with the highest rates	<1 year	2015 Cases in infants <1 year	29
	1-4 year		

*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2015 Year-to-Date Incidence Rates, By Age

Age (years)	2015 Cases	2013 population	Rate*, **
<1	29	50,052	123.7
1-4	46	203,815	48.2
5-14	79	505,598	33.4
15-24	56	469,436	25.5
25-34	23	440,736	11.1
35-44	28	372,699	16.0
45-54	7	305,312	4.9
55-64	14	269,589	11.1
65+	8	283,635	6.0
Total	290	2,900,872	21.3

* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

**2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

School Age Incidence Rates, 2015 Year-to-Date

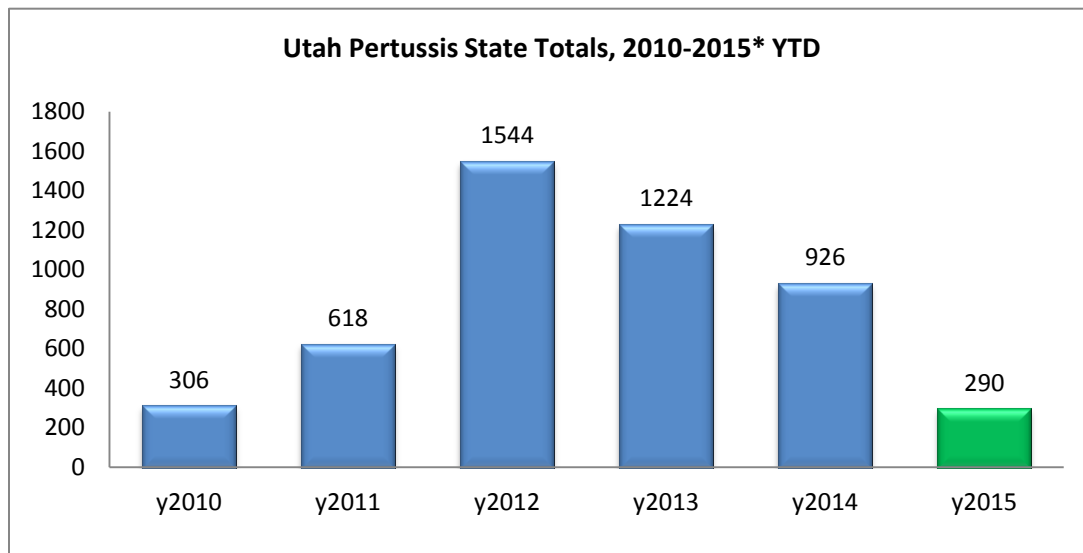
Grade	Age (years)	2015 Cases	2013 Population	Rate*
Preschool	3-4	118	103,602	243.1
Kindergarten	5	9	53,177	36.1
1	6	8	52,869	32.3
2	7	5	52,063	20.5
3	8	15	51,809	61.8
4	9	6	51,080	25.1
5	10	7	50,567	29.5
6	11	9	48,961	39.2
7	12	7	49,008	30.5
8	13	6	48,884	26.2
9	14	7	47,180	31.7
10	15	15	46,321	69.1
11	16	16	45,914	74.4
12	17	15	44,889	71.3

* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

Utah Case Counts of Pertussis, 2008-2014



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

* 2015 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

Incidence of pertussis by Local Health Department, 2015 YTD

Local Health Department	2015 Cases	Rate*
Bear River	0	0.0
Central Utah	9	25.2
Davis County	27	17.9
Salt Lake Valley	75	14.8
San Juan County	11	156.8
Southeast Utah	2	10.4
Southwest Utah	5	5.0
Summit County	41	227.4
Tooele County	2	7.0
TriCounty	1	3.7
Utah County	43	16.6
Wasatch County	6	48.4
Weber-Morgan	36	30.9

* Rate is calculated per 100,000 person-years using 2013 Utah population estimates

